

ILLEGIB

STATINTL

LN 1665

17 May 1963

STATINTL

To:

From:

STATINTL

Dear Sir:

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Forwarded herewith is the trip report covering

trip to NPIC during the period 6 May to 10 May 1963.

Very truly yours,

HYCON MFG. COMPANY
STATINTL

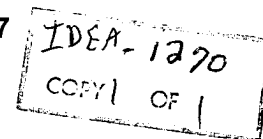
HRE:jdj

Encs.

STATINTL

cc:

A. Lundall



16 May 1963

STATINTL

To:

From:

Subject: Trip Report

A trip was made during the period 6 May to 10 May 1963 to Project Headquarters to review and evaluate the latest material from the "B" cameras. Conclusions and recommendations are as follows.

CONCLUSIONS:**1. Exposure**

All the missions viewed were flown with an F-10 aperture and the exposure was excellent.

2. Processing quality

Most of the missions viewed that were processed by FOG showed quite a few scratches and abrasions. Missions that were processed by Eastman Kodak showed quite a few parts of missions over-developed. The missions processed by the Navy and [REDACTED] organization were excellent.

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3. General quality on cameras

- a. Quality on camera no. 1 with lens no. 7 was 15-20 lines per mm.
- b. Quality on camera no. 3 with lens no. 10 was 30-35 lines per mm and showed no fall-off over the entire format.
- c. Quality on camera no. 7 with lens no. 12 was 10-15 lines per mm on the data chamber end, 20-25 lines per mm in the center, and 25-30 lines per mm on the end opposite the data chamber. This condition was the same on all missions viewed.
- d. Quality on camera no. 8 with lens no. 17 was 30-40 lines per mm and showed no fall-off over the entire format area.
- e. Quality on camera no. 9 with lens no. 6 was 30-40 lines per mm over the whole format area.
- f. Quality on camera no. 11 with lens no. 13 was 30-35 lines per mm over the whole format area.
- g. Quality on camera no. 12 with lens no. 16 was 35-40 lines per mm.
- h. Quality on camera no. 13 with lens no. 9 was 35-45 lines per mm.
- i. Quality on camera no. 15 with lens no. 8 was 35-45 lines per mm.

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RECOMMENDATIONS

1. That lens no. 7 now on camera no. 1 only be used for color.
2. That camera no. 7 not be used until it is refocused as the mirror appears to be tilted.
3. That all FOC cameras be tested at [REDACTED] prior to delivery as all Project cameras are now being tested prior to acceptance.

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BREAKDOWN OF INDIVIDUAL MISSIONS

Missions no. 3520, 3524, 3527, 3531, 3536, 3540, 3544, 3548, 3552, 3556 and 3567 - camera no. 1, lens no. 7 - 9R & L

These missions were viewed and all were the same resolution, 15-20 lines per mm. The data chamber, position indicators, metering and tracking were normal. Development was good except for scratches from the processor in the center of the format.

Mission no. GRC-144 - Camera no. 3 - lens no. 01

Had edge static on the extreme outside edge of material. Data chamber, position indicator, metering, tracking all normal. Wet static markings on frame no. 158. Abrasion marks on 9L after 1780 frames. Over-development on some parts. Resolution 30-35 lines appeared to be approximately the same over the entire format.

Missions no. 3500 (3-17-63) and 3505 (3-12-63) - Camera no. 7 - lens no. 12

Data chambers, metering, tracking and position indicators exposure good. Processing scratches in center of material all the way. All 1L frames show vibration. No other positions show any vibration. Resolution data chamber end 10-15 lines per mm, center 20-25 lines per mm, opposite end 25-30 lines per mm.

Mission no. 3594 (5-9-63) - Camera no. 7 - lens no. 12

Exposure, metering and data chamber were good. 1L position indicator very dim. Resolution same, 10-15 lines per mm on data chamber end, center 20-25 lines per mm, opposite end 25-30 lines per mm. 1L positions showed no vibration. Col. Allen requested this camera be refocused before any more flights.

Mission no. 3592 (5-7-63) - Camera no. 8, lens no. 17

Camera baffle blocked off approximately 1/16" on outside edge on 9R & L. Also some foreign matter on the baffle casting a shadow 3/16" into the

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format area on the data chamber end. Metering, tracking and data all good. Processing good except scratches in the center of material all the way through. Resolution 30-40 lines per mm and appears to be good all over.

Mission no. 3218 (3-1-63) - Camera no. 9 - lens no. 6

Frame counter stuck on 9999. Position indicator lights all bleeding thru on all positions. Metering, tracking, exposure and processing good. Resolution 30-40 lines per mm. Appears good all over.

Mission no. 3589 (5-4-63) - Camera no. 11 - lens no. 13

Exposure, data, metering and tracking all good. Processing good on 9L, streaks on 9R. Resolution 30-35 lines per mm. Appears good all over.

Mission no. 3222 - Camera no. 12 - lens no. 16

Exposure, metering, tracking, data and processing all good. Resolution 35-40 lines per mm. Appears good all over.

Mission no. 3502 (3-20-63) - Camera no. 13 - lens no. 9

9R has a light leak and obstruction on frame no. 1 and on all mode change frames which carries over onto the 9L side on No. 1 frame only. All other 9R frames have a fogged line 1" inside format area 5/8" wide thru the entire mission and a densely fogged spot on every frame. (See tracing) This appears to have been caused by a screw coming out of the vertical dot bracket.

Mission no. 3515 - Camera no. 13

This mission shows no evidence of fogged streak or light leaks.

Mission no. 3562 (4-19-63) - Camera no. 13 - lens no. 9

9R side has a light leak on frame no. 1 6-7/8" from end of frame edge opposite data chamber. Data chamber over-exposed. Position indicators, metering, tracking and exposure good. This mission has a fogged streak the same as mission no. 3502 only not quite as heavy. Resolution 35-45 lines per mm. Fall-off in resolution on data chamber end 2" from edge.

Mission no. 3591 (5-6-63) - Camera no. 13 - lens no. 9

Shutter malfunction on frame no. 200. Stuck closed for two frames, made one good frame and stuck open for one frame then closed and remained closed for the remainder of the mission. Resolution on the first 200 frames 35-45 lines mm. No fall-off on either end and no light leaks.

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Mission no. 3590 (5-5-63) - Camera no. 15 - lens no. 8

A desensitized line approximately 1/4" inside frame area on the outside edge caused by hypo on a top roller and the material coming in contact with the emulsion prior to development. Data chamber fair and position indicators good. Exposure good, metering good, scratches and streaks in center of material caused by bad rollers in the processor. Resolution 35-45 lines per mm.

Mission no. 3593 (5-8-63) - Camera no. 15 - lens no. 8

Metering, tracking, data chamber, position indicator lights and exposure all good. Over-developed, but otherwise good - no scratches. Resolution 30-40 lines per mm.

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Senior Engineer

STB:jdj

MISSION NO. 3502 20th MARCH

NO. 13 4-R frame 11.001

Fogged
R.C.S

Data Chamber
JR

Good No 709

No. 13
Page
No. 12

Top of Area

1964-1965

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